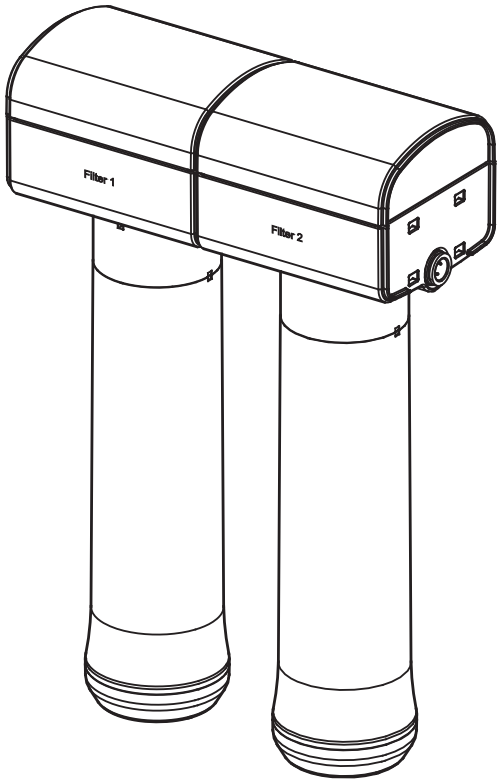
ecopure®

Installation and Operation Manual



Model ECOP20

How to install, operate and maintain your Undersink Drinking Water System

Do not return unit to store

If you have any questions or concerns when installing, operating or maintaining your Undersink Drinking Water Filter System, call our toll free number:

1-800-693-1138

Monday- Friday, 7 AM - 6 PM CST
or visit **www.ecopurewaterproducts.com**

When you call, please be prepared to provide the model, date code and serial number of your product, found on the rating decal, located inside the cover.

System tested and certified by NSF International against NSF/ANSI Standards 42 & 53, for the reduction of the claims specified on the performance data sheet.

Manufactured and warranted by
Ecodyne Water Systems
1890 Woodlane Drive
Woodbury, MN 55125

7316151 (Rev. E 9/13/13)

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Before You Start

▼ Read all steps and guides carefully before installing and using your undersink drinking water filter system. Follow all steps exactly to correctly install. Reading this manual will also help you to get all the benefits from the undersink drinking water filter system.

▼ Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. This system is certified for cyst reduction and may be used on disinfected waters that may contain filterable cysts.

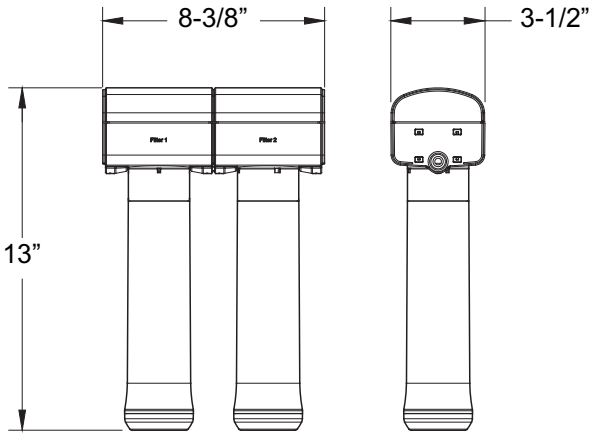
▼ All plumbing should be done in accordance with local codes and requirements. In Massachusetts, plumbing code 248 CMR 3.00 and 10.00 shall be adhered to. Consult with your licensed plumber.

▼ The undersink drinking water filter system works on water pressures of 30 psi (minimum) to 125 psi (maximum). If your house water pressure is over the maximum, install a pressure reducing valve in the water supply pipe to the filter system.

▼ Do not install the undersink drinking water filter system outside, or in extreme hot or cold temperatures. Temperature of the water supply to the undersink drinking water filter system must be between 40°F and 100°F. Do not install on hot water.

Specifications and Dimensions

Min. - Max. Supply Water Pressure	30 - 125 psi (207 - 862 kPa)
Min. - Max. Supply Water Temperature	40 - 100 °F (4 - 38 °C)
Inlet - Outlet	3/8" quick connect fittings and tubing included



Questions? Call toll free: 1-800-693-1138

Parts of the System

- filter system assembly
- water supply fitting
- filtered water faucet for sink or countertop mounting
- 3/8" tube bends
- 3/8" tubing to make all needed connections

Materials and Tools Needed

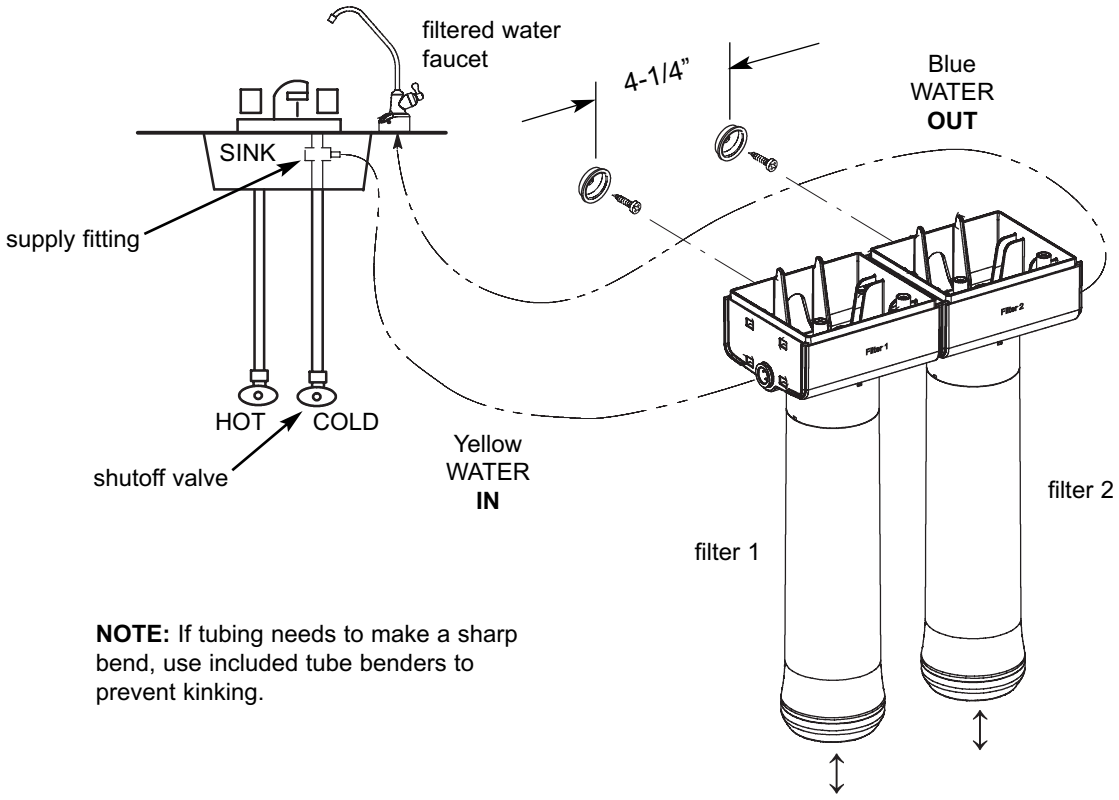
NOTE: Gather the required tools before starting installation. Read and follow the instructions provided with any tools listed here.

- slotted and Phillips screwdrivers
- pliers and adjustable jaw wrench
- tubing cutter
- electric drill and 1-1/4" drill bit if mounting hole is needed for the faucet

IMPORTANT: To avoid damaging the sink, consult a qualified plumber or installer for drilling procedures in porcelain or stainless steel.

Typical Undersink Installation

Locate the water filter housing on the cold water supply pipe, under the kitchen and/or bathroom sink, to filter the cold drinking water. Refer to the following drawing.



NOTE: If tubing needs to make a sharp bend, use included tube benders to prevent kinking.

NOTE: Be sure to allow a minimum space of 1-1/2" under the system for removing the filter cartridges, in order to change the cartridges.

Fig. 1

Questions? Call toll free: 1-800-693-1138

Installation Steps

Step 1 - Cold Water Supply Fitting

Check and comply with local plumbing codes as you plan, then install a cold feed (supply) water fitting. The fitting must provide a leak-tight connection to the water filter 3/8" tubing. A typical connection using the included water supply fitting is shown in Figure 2A. An optional connection using standard plumbing fittings (not included) is shown in Figure 2B.

Cold Water Supply Fitting

1. Close the water shut off valve that is immediately before supply fitting and open faucets to drain water from the sink cold water pipe.

2. Remove nut that connects the cold water faucet to cold water plumbing.

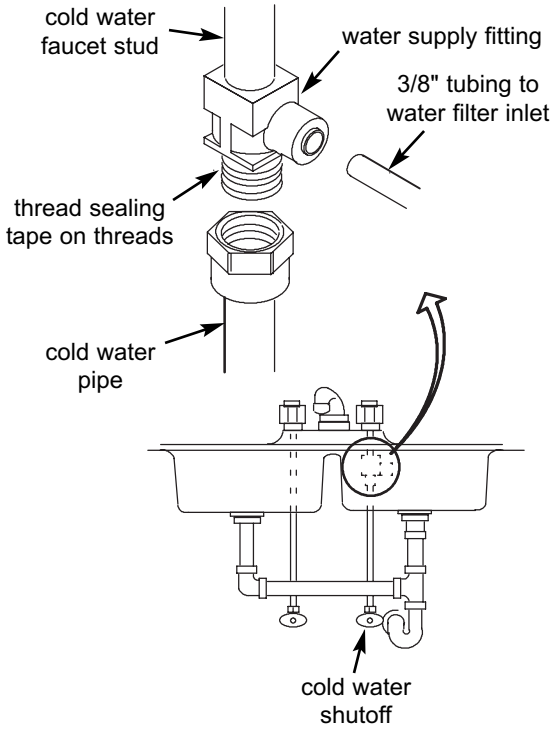
3. Thread water supply fitting onto pipe and reconnect nut to bottom of fitting.

Optional Pipe Fittings (compression type shown)

NOTE: Be sure to turn off the water supply and open a faucet to drain the pipe.

Complying with plumbing codes, install a fitting on the cold water pipe to adapt 3/8" OD tubing. A typical connection is shown in Figure 2B. If threaded fittings are used, be sure to use pipe joint compound or thread sealing tape on outside threads.

A. Water supply connection
(using included water supply fitting)


cold water faucet stud
water supply fitting
3/8" tubing to water filter inlet
thread sealing tape on threads
cold water pipe
cold water shutoff

B. Water supply typical connection
(using compression fitting)
- parts not provided -

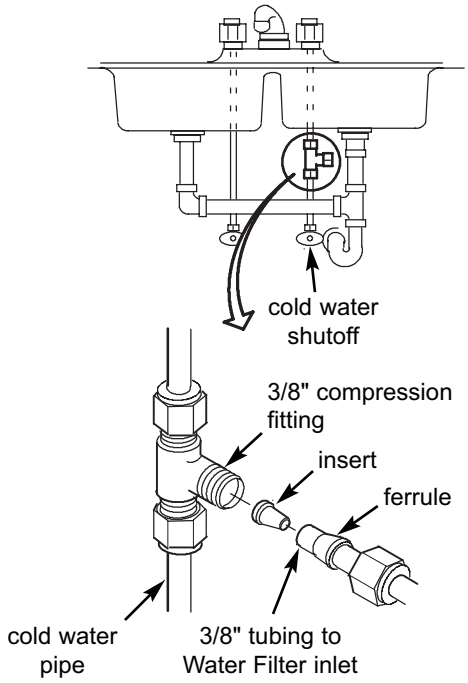


Fig. 2

Questions? Call toll free: 1-800-693-1138

Installation Steps

Step 2 - Make Hole For Filtered Water Faucet

IMPORTANT: To avoid damaging the sink, consult a qualified plumber or installer for drilling procedures in porcelain or stainless steel. Special drill bits are made for this.

1. Select one of the following places to install the faucet. Be sure there's room underneath so you can make the needed connections.
    - In an existing sink spray attachment hole.
    - Drill a hole in the sink top.
    - Drill a hole in the countertop next to the sink.
2. If drilling is needed make a 1-1/4" dia. (minimum) hole for the faucet.

Step 3 - Install Faucet

1. Feed the 3/8" tubing that is attached to the faucet through the mounting hole. Slide the toggle bolts through the mounting hole. Tighten the screws to secure the base flat on the mounting surface. Do not overtighten.
2. Move the faucet down onto the base. Turn 1/4 clockwise to attach the faucet to the base.
3. Install battery in base. See “Battery Change” section for instructions.

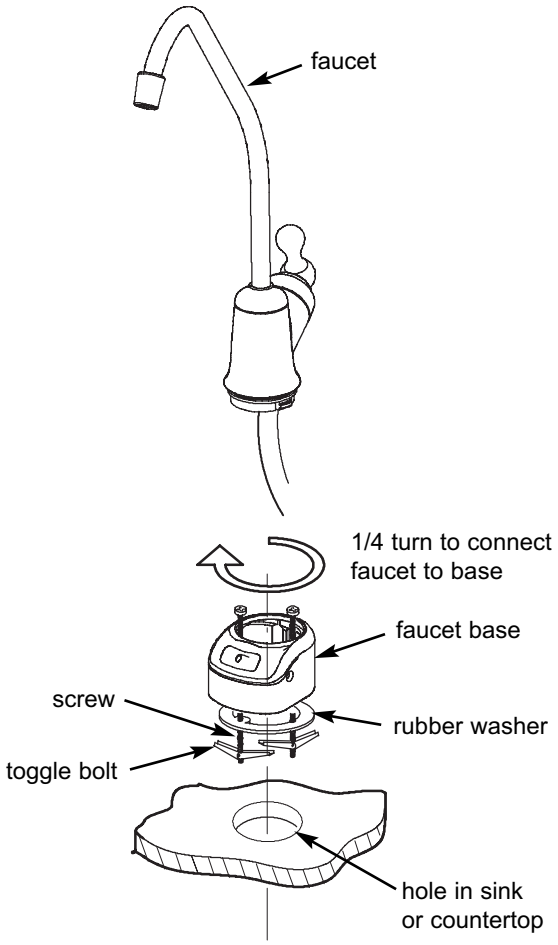


Fig. 3

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Installation Steps

Step 4 - Make Tubing Connections

NOTE: Remove protective foam plugs before connecting tubes (See Fig. 4). Discard foam plugs.

1. Allowing some slack, measure and cut a length of 3/8" tubing to connect between the supply fitting and the filter system inlet, Figure 1. Cut the ends of the tubing square.

2. Insert tubing all the way into the supply fitting and inlet fitting. Pull on the tubing to be sure that it's held firmly in the fittings.

3. Repeat steps 1 and 2 to connect tubing from the faucet to the filter system outlet, Figure 1.

Tubing Connection (all push-in fitting locations):

This system includes push-in fittings for quick tubing connections. If working with the fittings, do the following.

Connect Tubing:

1. Use a sharp cutter or knife to cut the end of tubing square.

2. Inspect the end (about 1") of the tubing to be sure there are no nicks, scratches or other rough spots. If needed cut the tubing again.

3. Push tubing through the collet and all the way into fitting. Full engagement is 3/4" length of tube into the fitting.

If tubing other than supplied with the system is used, be sure it is of high quality, exact size and roundness with a smooth surface.

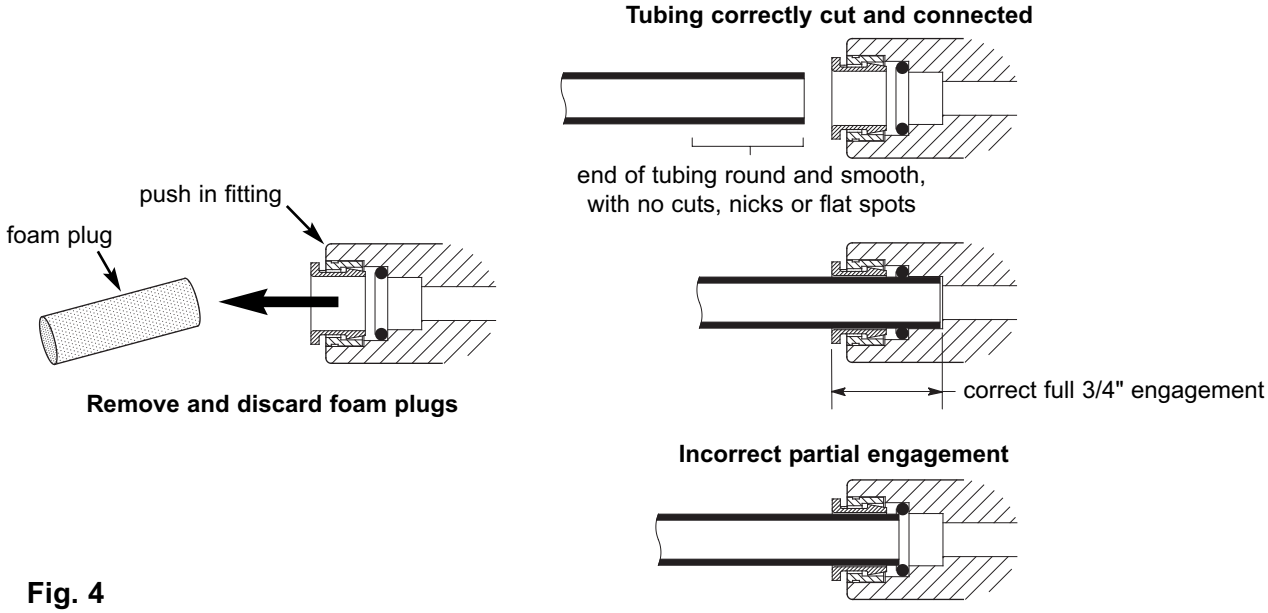

Tubing correctly cut and connected
end of tubing round and smooth,
with no cuts, nicks or flat spots
push in fitting
foam plug
Remove and discard foam plugs
correct full 3/4" engagement
Incorrect partial engagement

Fig. 4

To Disconnect Tubing:

1. Push the collet inward and hold with a finger while pulling the tubing out.

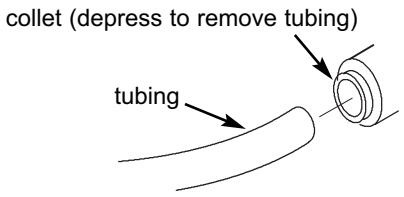


Fig. 5

Questions? Call toll free: 1-800-693-1138

Filter Cartridges

Filter Cartridge Life

Taste and Odor Cartridges: A taste and odor cartridge contains activated carbon, a black powder. When new, open the filtered water faucet and allow fine, carbon particles to purge from the cartridge. Close the faucet when you no longer see the “fines” (carbon particulates) in the filtered water, or approximately 10 minutes. It is recommended to replace the battery and filter cartridges every six months of use. There are several variables that determine how long a cartridge will last. These include:

1. How much water you use, and

2. How much sediment, taste and/or odor, or other unwanted substance, is in the water.

Use the following information as a guide. However, no matter which type of cartridge you are using, you will know it is time to replace it when you first notice the return of the unwanted substance in your water.

Ecopure Undersink Drinking Water Filter system model ECOP20 with replacement element pack ECODWF conforms to NSF/ANSI 42 and 53 for the specific performance claims as verified and substantiated by test data. The rated capacity for this system is 270 gallons (1022 liters) at a rated service flow of 0.5 gpm (gallons per minute).

Filter Cartridge Replacement

1. Turn filter cartridge to the left to remove cartridges from the filter heads.

2. Dispose of the cartridges in a proper manner.

3. Install new cartridges. Turn cartridges to the right to re-attach to the filter heads.

4. Remove and replace the timer battery. See “Battery Change” section for instructions.

Taste and Odor Cartridges: A taste and odor cartridge contains activated carbon, a black powder. When new, open the filtered water faucet and allow the fine carbon particles to purge from the cartridge. Close the faucet when you no longer see the “fines” in the filtered water, or approximately 10 minutes.

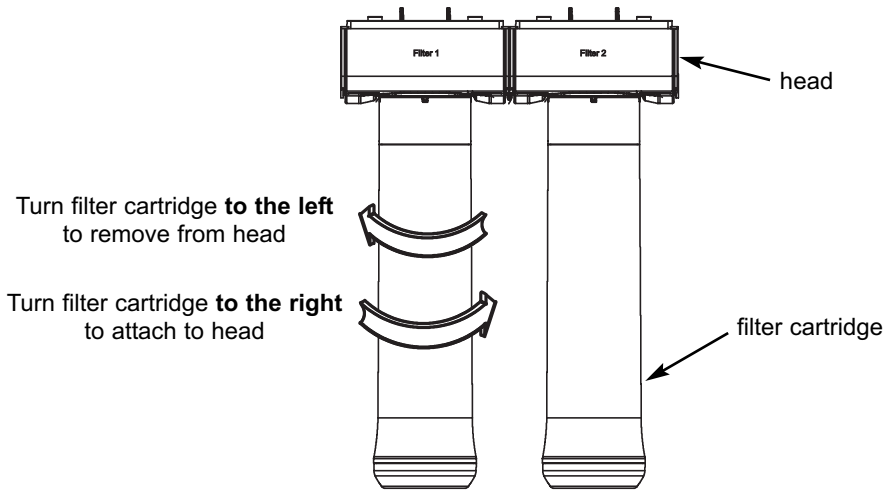

Filter 1
Filter 2
head
Turn filter cartridge **to the left** to remove from head
Turn filter cartridge **to the right** to attach to head
filter cartridge

Fig. 6

Questions? Call toll free: 1-800-693-1138

Faucet Electronics

Faucet Timer

Inside the faucet base is a battery operated 6 month timer.

An amber LED indicator is also located in the front of the faucet base. This LED will flash continuously after 6 months have passed. This indicates that it is time to replace the battery and filters.

Battery Change

To change the battery, complete the following steps.

1. Loosen the screw on the right side of the faucet base.

2. Press the battery housing upwards from faucet base until it releases from the base.

3. Replace the battery (CR 2032 or equivalent). Place battery into the holder with the positive (+) side facing the back of the holder.

4. When the battery is first replaced the light in the base will flash six times and turn off. This indicates the battery is fully charged. After the six flashes the timer enters the 6 month time cycle. If it repeatedly flashes two times, the battery is weak and needs to be replaced.

5. Re-install the battery housing and firmly tighten the mounting screw.

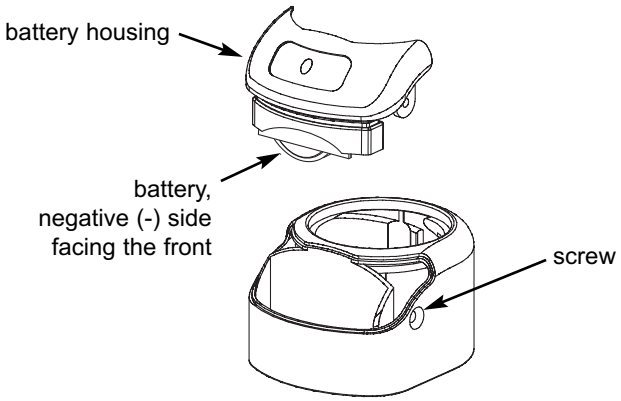


Fig. 7

Troubleshooting the System

Problem: Taste and/or Odor.	
Cause: Filter 1 and 2 expended.	***Correction:*** Replace the filter cartridges.
Cause: System contaminated.	***Correction:*** Sanitize system. Call 1-800-693-1138 for instructions.
Problem: Faucet LED indicator light does not function after battery change.	
Cause: Battery dead.	***Correction:*** Replace with new battery.
Cause: Battery installed incorrectly.	***Correction:*** Install battery correctly.
Problem: Water leaks at push connect fittings.	
Cause: Tubing not pushed in all the way.	***Correction:*** Push tubing in all the way into fittings.
Cause: Tubing not cut square.	***Correction:*** Cut tubing square.
Cause: Tubing nicked.	***Correction:*** Remove nicked portion, reinsert tubing into fitting.
Cause: Outer tubing surface not smooth.	***Correction:*** Remove rough portion, reinsert tubing into fitting.

Questions? Call toll free: 1-800-693-1138

Warranty

ONE YEAR LIMITED WARRANTY ON UNDERSINK DRINKING WATER FILTER SYSTEM (except filter cartridges)

Warrantor: Ecodyne Water Systems, 1890 Woodlane Drive, Woodbury, MN 55125

Warrantor guarantees, to the original owner, that the Undersink Drinking Water Filter System, when installed and maintained in accordance with the instructions, will be free from defects in materials and workmanship for a period of one (1) year from the date of purchase. If, within the first year, a part proves, after inspection, to be defective, Warrantor will, at its sole option, either replace or repair the part without charge except installation charges. Labor to maintain the equipment is not part of the warranty. Filters, which are expendable, are not covered by the warranty.

TO OBTAIN WARRANTY PARTS, SIMPLY CALL 1-800-693-1138, Monday - Friday, 7 am - 6 pm CST, for assistance. This warranty applies only while this product is in use in the United States.

General Provisions

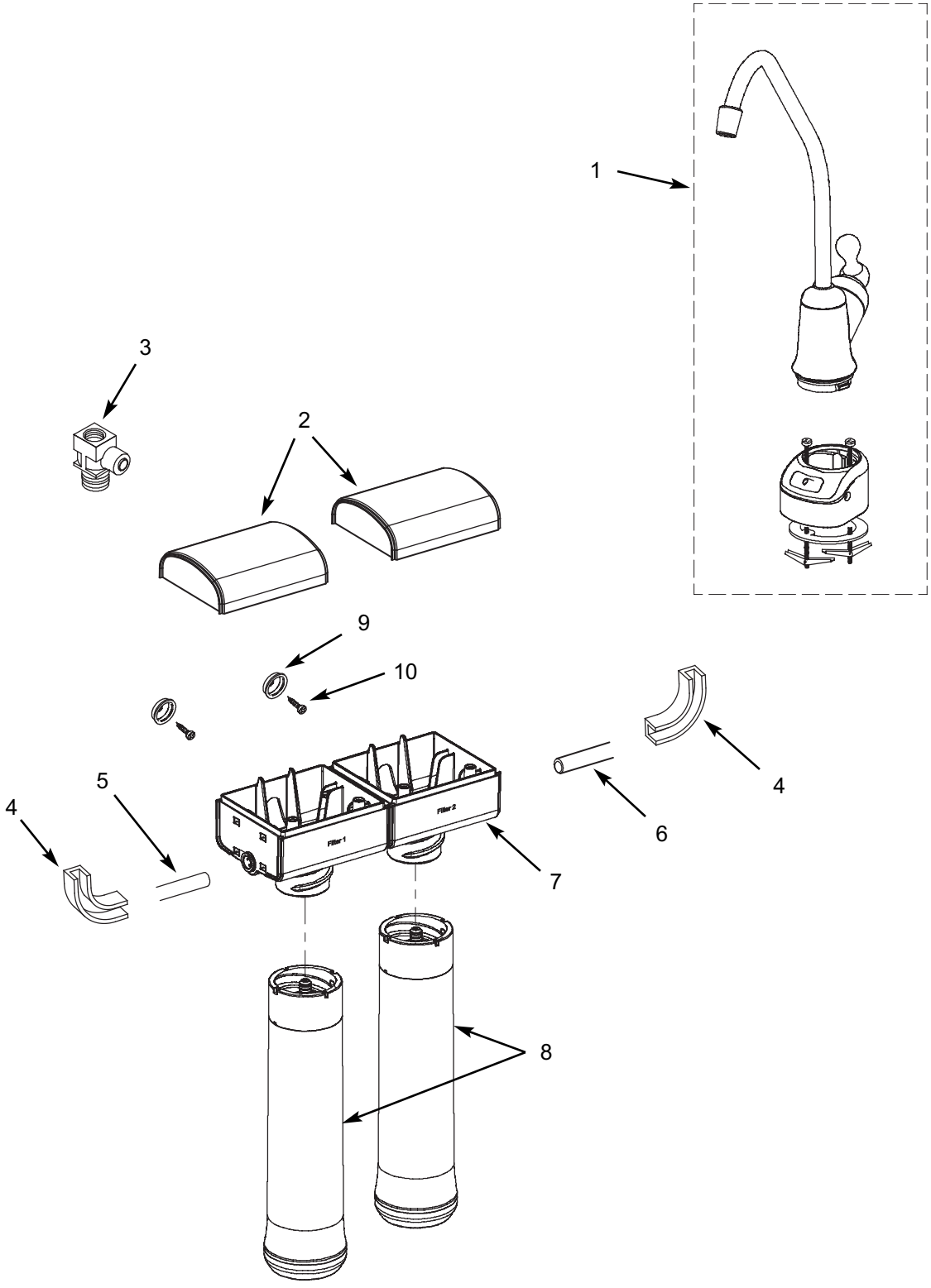
The above warranties are effective provided the Undersink Drinking Water Filter System is operated at water pressures not exceeding 125 psi, and at water temperatures not exceeding 100°F; provided further that the Undersink Drinking Water Filter System is not subject to abuse, misuse, alteration, neglect, freezing, accident or negligence; and provided further that the Undersink Drinking Water Filter System is not damaged as the result of any unusual force of nature such as, but not limited to, flood, hurricane, tornado or earthquake.

Warrantor is excused if failure to perform its warranty obligations is the result of strikes, government regulation, materials shortages, or other circumstances beyond its control.

***THERE ARE NO WARRANTIES ON THE UNDERSINK DRINKING WATER FILTER SYSTEM BEYOND THOSE SPECIFICALLY DESCRIBED ABOVE. ALL IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, ARE DISCLAIMED TO THE EXTENT THEY MIGHT EXTEND BEYOND THE ABOVE PERIODS. THE SOLE OBLIGATION OF WARRANTOR UNDER THESE WARRANTIES IS TO REPLACE OR REPAIR THE COMPONENT OR PART WHICH PROVES TO BE DEFECTIVE WITHIN THE SPECIFIED TIME PERIOD, AND WARRANTOR IS NOT LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES. NO WARRANTOR DEALER, AGENT, REPRESENTATIVE, OR OTHER PERSON IS AUTHORIZED TO EXTEND OR EXPAND THE WARRANTIES EXPRESSLY DESCRIBED ABOVE.**

Some states do not allow limitations on how long an implied warranty lasts or exclusions or limitations of incidental or consequential damage, so the limitations and exclusions in this warranty may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state. This warranty applies to consumer-owned installations only.

Exploded View



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Repair Parts List

Key No.	Part No.	Description
1	7292674	Faucet, with base & electronics
2	7268382	Cover (2 req'd)
3	7228536	Tee, Feed Adaptor
4	7273565	Flow Bend, 3/8" (2 req'd)
5	7208057	Tubing, 3/8" x 72" long, Yellow
6	7207962	Tubing, 3/8" x 72" long, Blue
7	7280106	Head Assembly
8	ECODWF	Rep'l Filter Cartridge (2 pack) ✱
–	7333129	Mounting Hardware Kit (includes 2 ea. of Key Nos. 9 & 10)
9	↑	Hanger Washer (2 req'd)
10	↑	Screw (2 req'd)
■	7316151	Owner's Manual

✱ Please purchase replacement cartridges from the retailer where you bought your drinking water system.

■ Not illustrated.

For repair parts call 1-800-693-1138, Monday - Friday, 7 am - 6 pm CST.